

THE ADVOCATE OF INDUSTRY AND ENTERPRISE, AND JOURNAL OF MECHANICAL AND OTHER IMPROVEMENTS.

VOLUME I.]

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THE SCIENTIFIC AMERICAN.

PUBLISHED EVERY THURSDAY MORNING, AT THE Sun Buildings, Entrance 128 Fulton st., and 89 Nassau st., ALSO, AT NO. 12 STATE ST., BOSTON, AND NO. 21 ARCADE, PHILADELPHIA.

(The Principal Office being at New York, BY RUFUS PORTER.

Each number of this paper is furnished with from two to five ORIGINAL ENGRAVINGS, many of them elegant, and illustrative of NEW INVENTIONS, SCIENTIFIC PRINCIPLES, and CURIOSITIES; and contains as much interesting Intelligence as six ordinary daily papers, consisting of notices of the progress of Mechanical and other Scientific Improvements, American and Foreign Inventions; Catalogues of American Patents; Scientific Essays, illustrative of the principles of the Sciences of Mechanics, Chemistry, and Architecture; Instruction in various Arts and Trades; curious Philosophical Experiments; Miscellaneous Intelligence, Poetry, and, occasionally, Music.

This paper is especially entitled to the patronage of Mechanics and Manufacturers, being the only paper in America devoted to the interests of those classes; but is particularly useful to Farmers, as it will not only apprise them of improvements in agricultural implements, but instruct them in various mechanical trades, and guard them against impositions. As a family newspaper, it will convey more useful intelligence to children and young people, than five times its cost in school instruction. Another important argument in favor of this paper, is, that it will be worth two dollars at the end of the year, when the volume is complete, and will probably command that price in cash, if we may judge from the circumstance that old volumes of the "New York Mechanic," by the same editor, will now command double the original cost.

TERMS.—The "Scientific American" will be furnished to subscribers at \$2 per annum, one dollar in advance, and the balance in six months.

Five copies will be sent to one address six months, for four dollars in advance.

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TERMS OF ADVERTISING.—For 10 lines, or less, 50 cents for the first, and 12 1/2 cents for every subsequent insertion.

Song of the Locomotive.

BY JAMES STILLMAN.

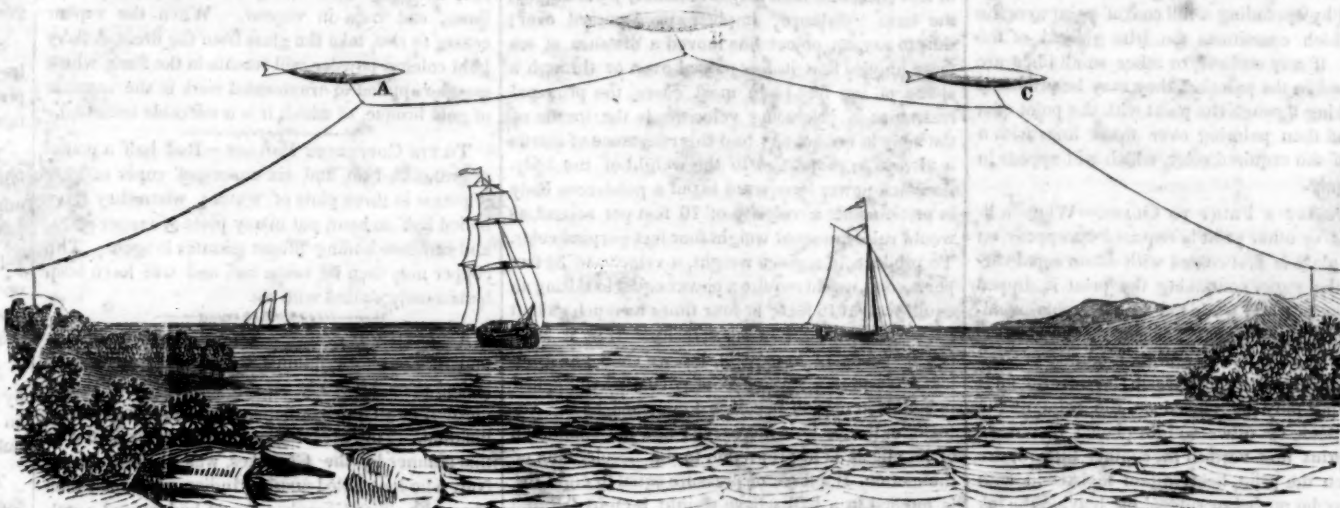
Onwards I come in my power and pride,
With speed that I will not slack;
And over every thing I'll ride,
Which comes upon my track.
The drink I love is the boiling steam,
My food is the blazing fire,
And volumes of hot and scalding steam
Are the breath which I inspire.
The fleetest courser I leave behind,
And the bird in its airy flight,
The feathered shaft and the rushing wind,
I pass in my furious might;
The head gets dizzy, the eyes grow dim
That strive my course to trace,
While swift as the livid lightning's gleam
I hurry along my race.
Chain to my iron frame your cars,
And mount in what number you please,
No matter what burden beside me bears,
I'll drag them along with ease.
Off I will start when the morning light
Girds the orient with its glow,
And onward keep when the starless night
Is shading the world below.
Around the earth clear me a track,
Give me my water and fire,
And I'll circuit will quickly make,
Nor think that I soon will tire.
My muscles, and sinews, and nerves are brass,
My ribs of the old oak grim,
And well-hammered metal my bowels incase,
And iron or steel is each limb.
A warning light is my smoky glare,
At the sound of my hissing breath
Clear from my path, for the loiterers there
Meet bruises, and wounds, and death.
For onward I come, in my power and pride,
With speed that I will not slack,
And on to my journey's end I'll ride,
And nothing shall keep me back.

The Thunder Gun!

The loud wind roared, the thunder roll'd,
Fierce lightning split the sky,
And all the west seemed fringed in gold,
As I was reaping rye.
I laid my sickle down to view
The grand and awful scene,
But I didn't stay to see it through—
Oh no—I wasn't so green.

SHERIDAN AND THE BOOTS.—Sheridan made his appearance one day in a pair of new boots; these attracting the notice of some of his friends, "now guess," said he, "how I came by these boots?" "Many probable guesses then took place." "No," said Sheridan, "no you've not hit it, nor never will—I bought them, and paid for them!"

THE MAGNETIC TELEGRAPH CROSSING A RIVER.



EXPLANATION.—One of the principal difficulties which has been encountered in the establishment of lines of the Magnetic Telegraph, is that of extending it across rivers and bays. To lay the wires upon the ground or bottom of a river, would be easily done; but the water being itself a conductor of electricity, it is difficult to prevent the diffusion of this fluid from the wires. The method which has been adopted, is that of enclosing the conducting wires, within a leaden pipe, but without allowing the wires to come in contact with the pipe, or with each other. But this method is not safe, as the pipe is liable to be broken by ships' anchors, or of imbibing a small quantity of water, which might derange the operation. It is therefore proposed to support the wires in an elevated position, by means of buoyant revoloidal spindles, or elliptic balloons, as shewn A, B, C, in the engraving. These balloons, being each sixty feet in length, and ten in diameter, will support about 40 lbs. each besides its own weight. The cost of them will not exceed \$200 each, being made of thin varnished cloth, and inflated with hydrogen gas. Each balloon will have a vane appended, which will govern the position of the balloon, and keep it pointed to the wind; and it is readily demonstrable that the balloon will not be subject to a force or pressure of wind, equal to 5 lbs. even in a heavy gale. Each balloon will sustain from 200 to 300 feet of the telegraph wires, which may pass for miles, if required, at such an elevation, as to be far above the reach of the masts of vessels. A small pipe 1-4 inch in diameter will be extended in connection with the wires, to each balloon, and by means of which the gas in the balloon may be replenished as often as occasion may require.

THE STEAM HORSE.—Elihu Burritt has a better fancy for a steam horse than we remember to have met elsewhere before. This is his way of describing him: "I love to see one of those huge creatures, with sinews of brass and muscles of iron, strut forth from his smoky stable, and saluting the long train of cars with a dozen sonorous puffs from his iron nostrils, fall gently back into his harness. There he stands, champing and foaming upon the iron track, his great heart a furnace of glowing coals; lymphatic blood is boiling in his veins—the strength of a thousand horses is nerving his sinews, he pants to be gone. He would 'snake' St. Peter's across the desert of Sahara, if he could be fairly hitched to it; but there is a little sober-eyed man in the saddle, who holds him with one finger, and can take away his breath in a moment, should he grow restive and vicious. I am always deeply interested in this man; for, begrimed as he may be with coal, diluted in oil and steam, I regard him as the genius of the whole machinery—as the physical mind of that huge steam horse."

IMPORTANT TO BLACKSMITHS.—A correspondent informs us of a very useful discovery he has made in burning wood coal, and requests that we make it public. The improvement consists in the use of ground bark in the place of dirt, as a covering for the kiln. Our correspondent, who is a practical blacksmith, in communicating the result of his experiment, says—"I covered with the old bark that had been used in tanning. I used leaves from the woods before the bark, the same as I would for covering with dirt—both leaves and bark should be made thoroughly wet. The advantages of this plan are: the kiln, if well set and well covered will burn much sooner, will never 'break out,' leave fewer brands, and consequently turn out a larger quantity of coal. The coal is heavier, more thoroughly burnt, and entirely free from dirt." [Ex. paper.]

MOST IMPORTANT DISCOVERY.—The St. Louis Missouriian says that wild hemp has been found in that State. A farmer from St. Louis county, being in Capt. Jenks' hemp warehouse, accidentally saw some Manila hemp, made inquiry what it was, and upon being informed that it was Manila hemp, said he had produced something exactly like it from a weed on his farm, and that he would send in a sample, which he did; and it proves to be a variety of the Manila hemp, resembling most the New Zealand Hemp, but it undoubtedly belongs to the same genus as the New Zealand, Sinal and St. Domingo hemp, from which all our heavy cordage is made. If this can be found in any quantity, it is a most valuable discovery.

SOLD TO IRON.—Vermont is becoming very rich in miners'. An immense mass of solid iron has just been discovered along the base of the Green Mountains, between Monkton and Bennington. Hitherto iron has been obtained there only in detached fragments; now it is blasted out in large quantities by the miners. It is found in regular solid beds, interstratified with rock, and generally reposing on lime stone rocks. It is thought to be co-extensive with the rock, and inexhaustible. This is a valuable discovery; and, in the hands of the enterprising and industrious Vermonters, will soon render Vermont a large iron manufacturing State.

ACCIDENT AND CRIME.—From the last annual report of the Registrar-General in England, it appears that, during the year, 3305 persons were killed by machinery, viz: 2577 by burns, 332 by scalds; more readily explosions; 1950 by drowning, 33 by snuff, published by a. There were also 65 cases street.

BRITISH CONTRIBUTIONS TO SCIENCE, ART, AND USEFUL KNOWLEDGE.—We gather from the proceedings of the late session of the British Parliament, that it appropriated for additional rooms for the British Museum £50,000, for purchasing certain collections for that institution £6217; for the National Gallery 1,500; for the geological survey of Great Britain and Ireland 8,850; for magnetic observations 5,839; for monuments to Lord de Saumarez, Exmouth and Sir Sidney Smith 1,500; for communicating with India, via the Red Sea 50,000; for ditto between India and China 99,000; for the School of Design 4,911; for the Scottish Universities 7,380; for Belfast Academy, 2,000; for public education in Great Britain, 75,000; for public education in Ireland, 75,000; all for 1845—total 387,317.

INFLUENCE OF THE MOON ON TREES.—An intelligent gentleman engaged for nearly thirty years in cutting timber in Demarara and who has made extensive observations upon trees, says that the moon's influence on trees is very great; so observable is this, that if a tree be cut down at full moon, it will immediately split, as if torn asunder by great external force. Trees are also attacked much sooner by the rot than if allowed to remain to another period of the moon's age. Those intended, therefore, to be applied to durable purposes are cut only during the first and last quarters of the moon; for the sap rises to the top of the trees at full moon, and falls in proportion to the moon's decrease.

WESTERN HEMP.—It is stated by the Cincinnati News that the Maysville hemp market furnishes about thirty-six hundred tons per annum: whereas Weston, Mo., a town of yesterday, according to the Democrat of that place will export at the lowest estimate this season three thousand tons; about equal to that shipped at the most important point in Kentucky. The hemp shipped at Weston, is almost exclusively of the growth of Platte. We are informed that at St. Joseph and other points on the river, in what is called the Platte Purchase, the amount shipped is very considerable.

A STUMP SPEECH.—"If I'm elected to this office, I will represent my constituents as the sea represents the earth, or the night contrasts with the day. I will univet human society, clean all its parts, and screw it together again. I will correct all abuses, purge out all corruption, and go through the enemies of our party like a rat through a new cheese. My chief recommendations are that at a public dinner given to me, I ate more than any two men at the table—at the late election I put in three votes for the party—I've just bought a new suit of clothes that will do me to wear to Congress, and I've got the handsomest sister in old Kaintuck."

The deeper a man digs into the gold mine, the less able, or less willing, is he to breathe the sweet air of upper earth, or to bask in the daylight of heaven: downward, downward still, he casts the anchor of his grovelling affections, and neither can nor will have a heart for any thing but gold.

The Boston Mail says, several vessels from that port have taken cargoes of ice to Philadelphia, and brought back cargoes of coal. We understand now what is meant by reciprocity of trade—we cool the Philadelphians in summer, and they warm us in winter.

Somebody says, that persons who are always cheerful and good humored are very useful in the world; they maintain peace and happiness, and spread a thankful temper amongst all who live around them.

AN INDIA RUBBER FACTORY in Providence manufactures 600 pairs of shoes daily. The India rubber being first mashed, is dissolved in camphine, and passed several times between two iron rollers. It is then run off in a very thin web by passing it between heavy rollers upon cloth, where it is kept in place until several layers are made, so as to obtain the desired thickness. During this operation the material is kept warm by steam. One girl makes from 10 to 15 pairs of men's rubber shoes per day after the material is prepared.

PORT OF ENTRY.—Rochester begins to put on a lively appearance of shipping interests, and will shortly become an important commercial, as it is a trading city. The last arrivals are chronicled as follows:—steamer America, from Toronto and Coburg; steam-propeller from Oswego: the brig Empire, from Oswego; steamer Neptune, Sackett's Harbor; St. Lawrence, from Ogdensburg; propeller Vandana, of Oswego, &c. &c. A few years more, and our Lake commerce will be immense.

A CRUSTY ONE.—The editor of the Hagerstown News, himself an old bachelor, says, and with no little truth too, that—"nothing can prevent an increase of bachelorism save an amendment in the mode of educating women. When they learn some useful employment, instead of beating the piano—when they prefer honest industry to silly coxcombry, and when men find that woman is a helpmate instead of a burthen, then we may expect to find few bachelors—not till then."

PLANTING TREES.—From the time the leaves have mostly fallen to the middle of November, is suitable for transplanting. In climates as mild as that of the vicinity of this city, the roots of fall transplanted trees grow and mature themselves before severe frosts sets in. Hence it is important to set out as early as possible after the leaves have fallen. A deep loam is the soil which is generally to be sought. The quality of the fruit is thought to depend more on the soil than on the climate.

A quarry, of the most beautiful variegated marble, commonly called serpentine, has been lately discovered in Florida, Mass. Specimens, which surpass the Egyptian in beauty and variety of colors, and susceptibility of polish, have been shown us, which we learn are a fair sample of an inexhaustible mass. The grain is finer and the structure more compact than that of any other marble in this region, and when polished in thin slabs, the clouds and different shades of color are of great beauty.

INDIAN CAMP-MEETING.—The Cherokee Advocate gives an interesting account of a Methodist Camp Meeting held near Doaksville, in the Choctaw Nation. The account speaks well for the progress of the Choctaws in civilization and Christian knowledge.

MAMMOTH CAVE, KENTUCKY.—Not less than two hundred and twenty-odd avenues have been discovered in this celebrated cave, not one in a dozen of which is visited by the ordinary visitor.

BREACH OF PROMISE.—Miss Louisa Fenzell recently recovered from Mr. J. Aughinbaugh \$1,850 for breach of marriage promise, in Marion county, Ohio. She was lucky to escape such an uncouth name, to say nothing of the money obtained.

A cricket match was recently played in this city, between the married members and the bachelors of the cricket club, and was won with ease by the married party.

CATALOGUE OF AMERICAN PATENTS ISSUED IN OCTOBER, 1845.

To Wm. Trapp, jr., of Dryden, N. Y., for improvements in barrel machinery—7th Oct.
To Benjamin M. Smith, of Massillon, Ohio, for improvement in machinery for breaking and dressing flax and hemp—7th Oct.
To Geo. O. Russell, of Middletown, Conn., for improvement in the manufacture of door-knobs—7th Oct.
To Walter Hunt, of New York, for improvement in inkstands, (having assigned his right, title, and interest in said improvement to Augustus T. Arrowmith,)—7th Oct.
To Thos. B. Quigley and Harvey Hall, of Mansfield, O., for improvement in wheel-plows—7th Oct.
To Lewis Edwards, of Norwich, Conn., for improvement in rolling machines—9th Oct.
To Isaac Tyson, jr., of Baltimore, Md., for improvement in manufacture of chromate of potash—9th Oct.
To Benjamin Brown, of Burlington, Vt., for improvement in planing machines—9th Oct.
To William Rowan, of Belfast, Ireland, for improvement in anti-friction boxes for axles, &c., (having assigned his right, title, and interest in said improvement to Thomas Murray Megget, of New Orleans, La.)—patented in Ireland 7th Nov., 1844, and in America 9th Oct., 1845.
To Joseph S. L. Hunt, of Boston, Mass., for improvement in machinery for planing shingles, &c.,—9th Oct.
To John C. Briggs, of Saratoga, N. Y., for improvement in pegging-machines—9th Oct.
To John C. Palmer, of East Haddam, Conn., for improvement in door-fastenings—11th Oct.
To Thos. S. Washburn, of Lowell, Mass., for improvement in burring-machines—11th Oct.
To Alanson Crane, of Lowell, Mass., for improvement in burring-machines—11th Oct.
To Samuel H. Bran, of Philadelphia, Pa., for improvement in the manner of replacing railroad cars upon the track—11th Oct.
To Richard Hemming, of Boston, Mass., for improvement in connecting links for railroad cars—11th Oct.
To A. S. Pelton, of Clinton, Conn., for improvement in shingle machines—15th Oct.
To S. H. Gilman, of Boston, Mass., for improvement in the manufacture of forks—16th Oct.
To William Hall, of Boston, Mass., for improvement in locks for banks and sales—16th Oct.
To Henry Stanley, of West Poughkeepsie, Vt., for improvement in rotary-top stoves—25th Oct.
To C. F. Baldamus and F. W. Siemens, of Berlin, Prussia, for improvement in anastatic printing—25th Oct.
To Ethan Campbell, of New York, for improvement in sugar making—25th Oct.
To Edward Badlam, of Potsdam, N. Y., for improvement in pianofortes—25th Oct.
To J. Farnam, of Stillwater, N. Y., for improvement in manufacture of pottery ware—25th Oct.
To Ira Smith, of Chagrin Falls, Ohio, for improvement in bedstead fastenings, (having assigned his right, title, and interest in said improvement to Adin Gaunt)—25th Oct.
To Jesse Ursey, of Wilmington, Del., for improvement in cutting and grinding corn in the cob—25th Oct.

DESIGNS PATENTED.

To Addison Low, of Albany, N. Y., for design for stoves, (having assigned his right, title, and interest in said improvement to Rathbone & Co., of Albany, N. Y.)—7th Oct.
To Clark Mills, of Charleston, South Carolina, for design, (bust of J. C. Calhoun)—7th Oct.
To John S. Peckham and M. Peckham, of Utica, N. Y., for design for a stove: patented 18th October, 1845—antedated 6th Sept., 1845.
To Henry Stanley, of Poughkeepsie, Vt., for design for stove—16th Oct.
To Ezra Ripley, of Troy, N. Y., for design for stoves, (having assigned his right, title, and interest in said design to E. Johnson, G. Geer, and D. B. Cox, of Troy, N. Y.): patented 16th Oct., 1845—antedated 14th August, 1845.

THE BULL.—The Horse is called a noble animal, but for indomitable courage the Bull takes rank before him. Nothing daunts the Bull, he is altogether a stranger to fear, and runs headlong to destruction. A few days since, as the railroad train from Boston for Fitchburg had reached within a mile of Leominster village, a noble bull, that had escaped from an enclosure, and like a knight of old, had taken his stand on an embankment, ready to encounter all comers in single combat, regarded the fierce-looking smoking steaming locomotive, as an enemy, and uttering a roar of defiance, dropped his head and prepared for the dreadful encounter!

The engineer saw the enemy, and not being pugnaciously inclined, tried to stop the train. But it was too late—the bull and the locomotive came in contact with a terrible crash—and the living breathing, four footed monster got the worst of it. Never was a knight hurled from his saddle with more force in the lists, or on the embattled plain in days of yore, than was this valorous bull borne to the earth by his ponderous opponent. Crushed down between the tracks—with his head fractured, his body bruised, and his limbs mutilated, he presented a sorry spectacle—a sad warning to bulls to be more cautious in future in selecting their enemies in single combat. (N. Y. Sun.)

A FOURTH OF JULY TOAST.—The memory of the man, that owned the land, that raised the corn, that fed the goose, that bore the quill, that made the pen, that wrote the Declaration of Independence!

The Americans have 600 whale ships in the Pacific ocean, being twice as many as those of the whole world besides.



Birth day of Washington.

Why swell a million hearts as one,
With memories of the past?
Why rings out yonder thunder gun
Upon the rushing blast?
Why hold the beautiful, the brave,
The jubilee of earth?
It is the happy day that gave
Our patriot hero birth.

We offer here a sacrifice
Of hearts to him who came
To guard young Freedom's paradise
With a sword of living flame!
To him who, on War's whirlwind loud,
Rode like an angel form,
And set his glory on the cloud,
A halo of the storm.

A hundred years, with all their trains
Of shadow have gone by,
And yet this glorious name remains,
A sound that cannot die!
'Tis graven on the hill, the vale,
And on the mountains tall,
And speaks in every sounding gale,
And roaring water fall!

No marble on his resting spot
Its sculptured column rears,
But his is still a nobler lot,
A grateful nation's tears
Old time that hides the marble bow
Makes green each laurel leaf
That blooms upon the sainted brow
Of our immortal chief.

His deeds were ours; but through the world
That mighty chief will be,
Where Glory's banner is unfurled,
The watchword of the Free!
And as they bend their eagle eyes
On Victory's burning sun,
Their shouts will echo to the skies,
"Our God, and Washington!"

The Mechanic.

Lift up thy toil-worn hand,
Thou of the stalwart frame and fearless eye!
Lift proudly now thine iron hand on high!
Firm and undaunted stand!

No need hast thou of gems,
To deck the glorious temple of thy thought,
Thou hast the jewels which thy mind hath wrought,
Richer than diamonds!

Mighty among thy kind,
Standest thou, man of toil, midway
Between the earth and heaven, all things to sway
By the high-working mind!

Thou canst delve in the earth,
And from its mighty caves bring forth pure gold;
Thou canst unravel the clouds in heaven rolled,
And give the lightning birth!

Thou hast the stormy sea,
Chained to thy chariot wheels, and the wild winds
Obey the o'er-ruling intellect that binds
Their rushing wings to thee!

Thou canst new bands create,
Where the wild rolling wave no mast'ry owns;
And the vast distance of opposing zones
Canst thou annihilate!

Lift then thy hand to heaven!
Spread thy tall sceptre o'er the sea and land;
Thou hast the world entrusted to thy hand,
Earth to thy charge is given!

DO your Duty come what may.

Do your duty come what may—
'Tis the sum of life's great beauty;
Do your duty every day,
And every day still do your duty.

Every prize for man to win,
Be it fame or be it beauty,
Speaks louder than a trumpet's din
Do your duty, do your duty.

Life is short and still receding—
Would you find the brighter way?
Then this lesson ever heeding,
Do your duty night and day.

Regions in the future lie,
Realms of yet unheard of beauty;
To find them you have but to try,
And manfully to do your duty.

A LUCKY BOY.—A poor boy in Nashville, Tenn., lately found a small but beautiful stone among some muske abells, on the banks of the river, and put it in his pocket, not knowing its value. Soon after, he chanced to expose it to view, when a gentleman proposed to send it to Philadelphia to ascertain its value. It proved to be a genuine pearl, weighing 18 grains, and worth from \$500 to \$1000.

A PERFECT CHRONOMETER.—Mr. Victor Giroud, watchmaker, 281 Broadway, has constructed a chronometer that contains a dial showing the equation of time, and three dials which show the perpetual calendar; adapts itself to the inequalities of the months, and introduces the intercalary day of leap year. This chronometer runs a year without winding.

THE MAGNETIC TELEGRAPH.—The line between this city and Washington is expected to be completed in three or four weeks. The posts for the telegraph from Boston to Nantasket, a distance of about twenty miles, are all put up, and the wires will soon be arranged.

AMERICAN IRON.—The production of iron in this country for the year 1844 was 486,000 tons, not much if any, less than one-third of the quantity made in England. It is computed that according to the present rate of increase, in three years our annual production will go up to 1,000,000 tons.

New Inventions.

A WRITING TELEGRAPH.—A new electrical telegraph, by which the despatch is written with a pen by the action of the fluid, is said to have been successfully proved at Brussels, in the presence of the Minister of Public Works. This might undoubtedly be effected by means of nice and complicated machinery, but we can not see much advantage to be gained thereby, over the more simple plan of Prof. Morse.

THE IRON SLAVE.—An invention has lately appeared under this name in England. It appears, from the slight description given of it, to consist of a steam-engine, mounted on three wheels—one a steering wheel,—and calculated to be employed in agricultural business, such as ploughing, harrowing, &c., and similar to the invention which appeared in No. 6 of this paper. All right: if John Bull can compete with us at that business, let him do it.

IMPROVED CHURN.—A mechanic in Northampton, Mass., has introduced a churn which is operated by the descent of a weight. The same quantity of power must, of course, be applied to wind up the weight that would be required to operate the churn by hand: but as a greater force may be applied to a crank in raising the weight than is requisite to operate the churn, considerable time may be thus gained which may be otherwise improved.

A POTATO DIGGER.—A machine has been put in operation at Salem, N. J., for digging potatoes by horse-power. It is said to have thrown out the potatoes as fast as thirty-six hands—men and boys, probably—could pick them up. It is evident from this circumstance, however, that the machine is far from perfection. It should have been so constructed as to take up every hill, sift the earth from the potatoes, and deposit the latter in the cart, at least,—not to say the cellar.

A POCKET LOCK.—A gentleman in Amherst, Mass., has invented a metallic clasp with a lock, to be attached to pockets for the security of the contents thereof. It may be useful, but we should think the pockets of most capitalists were quite sufficiently close locked already. We think the best security for pockets, however, is to carry nothing in them worth losing.

AN IMPROVED PEN.—Dr. Bean of Philadelphia has invented a pen with a cistern or fountain, which will contain a sufficient quantity of ink to write a page of letter paper without replenishing. We have often thought of the utility of such a pen, and hope this will prove unobjectionable.

Railroad Intelligence.

The Atlantic and Montreal Railroad is about to be located; a party of competent engineers being engaged in surveying the route of the upper sections.

It is decided to locate the Vermont Central Railroad to Burlington. The whole road from Windsor to Burlington is now located, and will soon be under contract.

A Railroad from Galena to Chicago, Ill., is contemplated, and its advantages are represented in very favorable light. Should this be constructed, the produce of the lead mines would be brought to this city by the way of the lakes and canal.

The railroad between Boston and Salem is graded for a double track, which will be laid as soon as the iron can be procured.

The balance of the stock in the Worcester and Nashua Railroad having been taken up, the road will be completed without delay.

Also the stock of the Saratoga and Washington road has been taken up, (a surplus of \$100,000 subscribed,) and of course that road will soon be graded.

The entire route of the Munroe, Ga., railroad is to be completed by the first of May next.

The Georgia Central R. R. Company have decided to construct a branch to the city of Columbus.

PURLOINING AN INVENTION.—We published in No. 7 a notice of an improved Spinning Frame, recently put in operation, and purporting to have been invented by a Mr. Baxter, of Paterson, N. J. But from the following certificate, which has been sent us from Manchester, Va., it appears that Mr. Baxter is not entitled to the credit of the invention, but has been taking liberties with the invention of another man. If Mr. Baxter is disposed to vindicate his own course, however, our columns are at his service,—he may speak for himself.

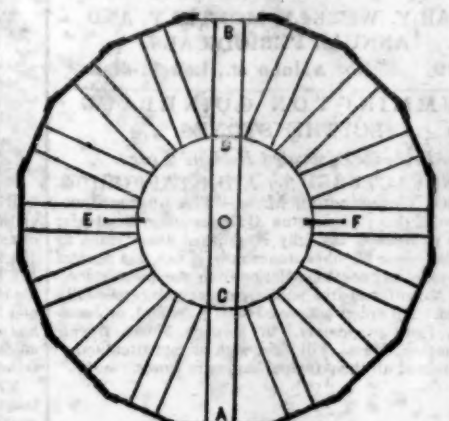
We the undersigned are ready to testify that the invention and application of a belt applied to the Bobbin Tube, or Waive, as described in the New York Sun, was put in operation last summer in the Manchester Cotton Factory by the Superintendent, J. Whitehead. We never heard or believe that Mr. Baxter had any thing whatever to do with the invention, or in assisting in its application in any way whatsoever.

Peter Small, Wm. Whitworth,
James McGee, Joseph H. Gibbs,
Wm. Stansfield, John Whitworth,
R. S. Whitehead, J. Calban,
A. B. Waugh,
Manchester, Va., Nov. 10, 1845.

A BURLESQUE INVENTION.—The Brooklyn Daily Advertiser announces an invention which outstrips C. of the galvanic rings and plasters ever heard of. It is constructed upon the electro-galvanic principle: and consists of lining the hat with copper and the boots with zinc, into which is poured dilute sulphuric acid. A connecting wire extends from the tile to the pedal extremities, running along the seam in the inexpressibles. When this contrivance is put in operation, the most halt rheumatic starts off at a hand gallop, and can with difficulty halt at all, but continues "on, on," like Mazeppa's Ukraine charger, or the "cork leg."

ALMANACKS.—Of the vast variety of almanacks, published for 1846, we have seen none which contains more important intelligence, and which we would more readily recommend, than the Protestant Almanack, published by A. W. Blakesly, 125 Nassau street.

Plan of the Engine House at the Western Termination of the Boston and Albany Railroad.

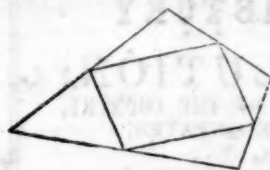


The building, the floor of which is here represented, is situated near the western termination of the Western Railroad at Greenbush. The height of the building is about 80 feet, and its diameter 140 feet, with a spacious rotunda nearly 140 feet in diameter, which conveniently accommodates the smoke from the engines. The building is sixteen sided; with several windows on each side, and has two large doors through which a main track passes, as represented by A, B, in the cut. In the centre of the building is mounted a circular turntable, C, D, of 43 feet diameter; to which two stout levers, E, F, are attached, by means of which the turntable is made to revolve. From this turntable fourteen other tracks radiate to the sides of the building. When an engine is to be deposited in this building it is run on to the turntable, C, D. The turntable is then turned till the section of track, attached thereto, comes into the line of the section track which is to receive the engine, which is then run off the turntable and deposited. By this management, 17 large engines, with their tenders, may be deposited in the building, without being inconveniently close together.

There are several other buildings, erected by the company, at this terminus which are worthy of notice. The machine shop is 107 feet long by 68 feet wide, (exclusive of smithshop,) and two stories high, with two tracks running through the length, and connecting with the Engine House in one direction, and with the Railway in the other. The Car House is 160 feet long by 40 wide, with three tracks, and will contain twelve long passenger cars, which form three entire trains for summer business.

On the Island are two large buildings exclusively for the transhipment of passengers and merchandise. The passenger House is entirely of wood, 225 feet long by 62 feet wide, with ladies' and men's saloons, and spacious platforms below, and office rooms in the second story. Two tracks run through within the building, and are connected with tracks outside by a turntable at the west end. The Freight House is of brick, one story high, 420 feet long and 90 feet wide, having a platform of the same length 20 feet wide, and roofed over between it and the excavated channel. Three tracks run through the entire length, and are connected by slide tables at the centre of the building, and in like manner near the west end, with three tracks outside. Merchandise is received from and delivered into wagons on the north side of the building, and on the south side is raised from and lowered into boats and other vessels by steam power. East of the Freight House a track extends along the wharf of the excavated channel for the transhipment of lumber, wood, coal, iron, stone and other commodities not injured by exposure to the weather. The "storage lots" on the main land are also available for the same and other purposes whenever required. The Island division of the Depot and Ferry boat is connected to the main land by a bridge over the creek of 202 feet span, having two tracks and a common carriage way. The excavated channel is eight feet deep and sixty-six feet wide at the lowest water. The freight accommodations are sufficient for the receipt and delivery of 1000 tons of merchandise per day.

THE TRAPEZIUM.—It is a curious fact in geometry, that if the centre points of each of the four sides of a trapezium—an irregular quadrangle of any shape or size,—are connected with each other by right lines, as shown in the following figure, these bisecting lines will invariably form a complete parallelogram;—a figure, the opposite sides of which are parallel with each other.



We have been reminded of this by a correspondent of the "Farmer and Mechanic," who invites a geometrical demonstration thereof. We shall not attempt such a demonstration as is probably required or expected, but may render the subject somewhat more comprehensive by simple illustration. It is readily seen that should a line be drawn from one centre point to the opposite, every part of this centre line must be equidistant from the side lines on the right and left: and as the same rule would also apply to another centre line crossing in the other direction, it is clear that these two centre lines must of necessity intersect each other at the centre of each; thus forming a cross, each two opposite arms of which are equal: and that consequently, each two opposite lines which may be made to connect the ends of the four arms, must necessarily be parallel to each other: thus forming a parallelogram.

TELEGRAPHIC CONVERSATION.—One of the telegraphic stations is sometimes managed by a lively young girl. She recently received per telegraph, the question, "How do you do, my dear," to which she immediately replied, through the same channel, "Please to mind your own business, sir, and not stand looking at the girls."

Galvanism.

All metals, from the brilliant gold to the lustreless pelt, are subject, in a greater or less degree, to oxidation, which consists of a chemical combination of the metal with the oxygen of the atmosphere, of water or of acids. During this process of chemical action, a quantity of electric fluid is liberated from the metal or from the oxygen, in which it had been latent, and pervades the pores and surface of the metal, until it finds an opportunity to escape by some conductor to other objects. When two plates of different metals as of copper and zinc, are immersed in a saline solution, the plate which has the greatest affinity for oxygen, becomes corroded, and the electric fluid is produced, which has a manifest tendency to escape through the medium of the solution to the other plate: but unaccountable as it is, if the two plates are connected by a metallic wire, outside of the liquid, the electric, or, as it is most generally termed, galvanic fluid, passes back to the first plate via the wire; thus performing a circuit. In this instance the zinc plates, having the greatest affinity for oxygen, becomes corroded, and is termed the positive plate, or pole, while the copper remains unaffected by the solution, and is termed the negative plate, or pole of the battery. And if the solution consists of sulphate of copper, a portion of the copper in solution will become revived and deposited on the copper plate: the galvanic action thus building on the copper plate, while the zinc plate is diminished by the action of the solution. To explain this action more definitely, the sulphate of copper in the solution becomes decomposed, the acid combining with the zinc, and dissolving it, thus forming a liquid sulphate of zinc, while the copper, being liberated from its combination with the acid, is revived and deposited on the negative plate. If the wire attached to the negative plate extends to another vessel containing a solution of sulphate of copper, and another wire extends from the zinc plate to the same vessel, the ends of both wires being immersed in the solution, though several inches apart, the galvanic fluid will pass with great facility from the copper plate to this second vessel, through the solution to the other wire, and back to the zinc plate. In this instance, the end of the first wire that is immersed in the solution, becomes a positive pole, and the end of the other wire a negative. And in this instance, the end of the positive wire will become corroded and dissolved, while the other will be increased in size by the deposition of copper from the solution. If a cent piece is attached to the end of each wire, and immersed in the solution, that on the positive pole will become dissolved, while that on the other will become coated with pure solid copper, which, when peeled off, will show a perfect impression of every minute figure of the mould on which it was deposited: and this is the true principle of electrotyping.

(To be continued.)

THE QUADRUPLE ROTARY.—We have received several letters, requesting more particular information on the subject of the parallel rotary engine, a description of which appeared in the 3d No. of this paper. With regard to its power, as a steam engine we shall thus demonstrate.—One horse-power, according to the general acceptance in this country, is equal to raising 100 lbs. 300 feet per minute. If the diameter of the steam wheel be 4 inches, we reckon the motion of the wings or floats thereof, at one foot to each revolution. Thus if each float presents a surface equal to one square inch to the action of steam, and the steam is applied under a pressure of 100 lbs. per square inch, then the united force of steam on both sides of the wheel, is 200 lbs., and a velocity in the wheel of only 150 revolutions per minute is required to work a horse power. Yet the fact is, that a velocity of 1500 revolutions per minute would be but a moderate motion for a little wheel of that size, and in that case it would work ten horse-powers. And by the same rule, if the wheel is 4 inches deep instead of one inch, as above supposed, it will work 40 horse-powers. We do not pretend that it will require less fuel or a less capacious boiler, than would be required to produce equal power in the cylindric engines: nor that there will be no loss of steam by leakage: but as we can not reasonably allow more than ten per cent. for leakage, whereas 30 per cent. is allowed for friction in other engines, we can not admit that any less net power will be produced by this than by the heavy engines. With regard to its application as a pump, we would explain, that the wheel is to be placed horizontally below the surface of the water, and the shaft may extend vertically to the top of the well; thus by turning a crank at the head of the shaft, the water is forced up through two pipes at the same time, to any required height. As a water-wheel or blowing wheel, it is much more easy of construction, and will effect a great saving of power in either application. The cost for a medium size blowing wheel will be not far from fifty dollars.

THE UTILITY OF INVENTIVE GENIUS.—A few years ago, the ship Peramir, Capt. Wootter, sprang a leak at sea, and after a week of severe labor at the pumps, it was found impossible to free the ship, and six feet of water being then in her hold it was determined to abandon her, though blowing hard at the time. A Mr. Carstairs, an ingenious mechanic, being on board, suggested that a windmill might be rigged to work the pumps. The idea was improved, the experiment was made and the vessel was saved. This windmill is now exhibited at the rooms of the Franklin Institute, Philadelphia.

SINGULAR PHENOMENON.—About three weeks since, the water of Lake Ontario, was observed to recede from the shores of the Canada side, and in a few minutes a large part of the harbor of Coburg was left entirely bare. Shortly after the water not only returned, but rose two feet higher on the shore than its ordinary level, and then again receded. This extraordinary action was continued for several hours. A steamboat attempted to enter the harbor of Port Hope, but ran aground, and had to wait for the return of the unaccountable tide before she could proceed.



"The Bible."

"What is it?" It is the written revelation of God to man. It teaches us the first revolutions of this world, and foretells the last; and is to be received (every word of it) for just what it purports to be—every word and passage being understood in its literal import, unless it involves an absurdity, or a plain contradiction.

It was written in Hebrew, Chaldaic, and Greek, by more than forty different men, who wrote as they were moved by the Holy Ghost. These writers were of every degree of intellectual cultivation, of every state and condition in life, and appeared at intervals, during a period of fifteen hundred years. It was written in the centre of Asia, in the sands of Arabia, in the deserts of Judea, in the courts of the Jewish temple, in the sumptuous palaces of Babylon, on the banks of the Chebar, in the schools of the prophets, and in the centre of eastern civilization; it is written with all the minuteness of historical and chronological narration, in the sublimest strains of poetry, and in the charms of glowing song; and yet with such a diversity of circumstances under which it was compiled, there is a uniformity of expression, a similarity of style, and a general tone of thought, running through the whole, with no contradiction of one writer by another, with none of those absurdities which are found in all other ancient authors, and with no single assertion or illusion which has been disproved by the progress of modern science. Does the reader inquire for the cause of this wonderful harmony and agreement? It is because "the prophecy came not in old time, [or as the margin reads, at any time] by the will of man: but holy men spake as they were moved by the Holy Ghost." Consequently, they did not speak their own thoughts or write their own ideas—they had no will respecting it; but they wrote what the Spirit dictated, as the Spirit presented it: they were mere amanuenses.

The Bible is, therefore, to be regarded as a perfect whole, the work of one mind: and that Mind the Creator of all things. As it was written during an extended period of fifteen hundred years, it was given to man for doctrine, for correction, for reproof, and for instruction in righteousness, to acquaint us with the past, and inform us of the future, as God saw it was needful or proper to communicate it to man. It begins with the earliest history in Eden, records all that is necessary for a perfect history in the progress of events, and gradually unfolds the future, line upon line, precept upon precept, here a little and there a little, as the wants of man required. It was not given all at once, nor was everything that is revealed respecting the various topics there illustrated found in the same connection; but that which was at one time more obscurely presented, is at many subsequent times more clearly and fully explained. Therefore, by examining only what we find in one prophecy respecting any one topic, our ideas on that point will be very obscure and incorrect. The question then arises, how are we to understand the prophecies which are thus obscurely presented? St. Peter has given us the key. In 2 Pet. 1:20 he exhorts us to know "this first, that no prophecy of the Scriptures is of any private [or self] interpretation;" that is, says Bishop Horsley, "no one of the prophecies explains itself, or is to be interpreted alone."—Why not? "For," says Peter, "the prophecy came not in old time [margin, at any time] by the will of man." Had the prophecy been written by the will of man, everything alluded to by each individual prophet, however near the resemblance, might have had no necessary connection with that spoken by the other prophets: each would have had topics peculiar to themselves, and must have been their own interpreters. "But," says St. Peter, "they were moved by the Holy Ghost." Thus no one spake the whole mind of the Spirit; each one spake a part; the Holy Spirit spake through them all—a part of its mind by one, and a part by another, and when all had spoken, then we had the whole of the revealed will of God to man, one part of which explains another part. We are, therefore, not to confine ourselves to a single prophecy for an explanation of all contained in such prophecy, but we are to search the whole Scriptures, and find all that the Spirit has said—a little here and a little there—on every separate topic spoken of in the Scriptures, and what is said in one place will explain what is said in another, and thus all the several topics of revelation, however obscure they may have been, become plain and easily understood.

GRATUITOUS SWEARING.—Men will swear and transgress the third commandment for nothing—but they do not like to invoke the curse of the Almighty for a reward. Mr. Romain, hearing a man call on God to curse him, offered him a half a crown if he would repeat the oath. The man started; what, said he, do you think I would curse my soul for half a crown? Mr. Romain answered, "as you did it just now for nothing, I could not suppose that you would refuse it for a reward." The poor fellow was struck by the reproof, and said, "may God bless you and reward you, sir, whoever you are. I believe you have saved my soul. I hope I shall never swear again."

AN INTERESTING EXTRACT.—At its birth, the child occupies a sort of middle-ground between life and death—its eyes cannot see distinctly. The heart beats feebly, as though its motions would soon expire by their own limitations. And yet in a very short time the little steam-engine begins to quicken its strokes, the hot blood gushes through all the alleys of the system: soon the little feet that would not support the weight of his limbs, climb the mountains of the earth, and travel round the globe: and off from its fingers' ends leap railroads, steamboats, power-looms, and libraries.

From the Evening Mirror.
Hans Schaffer.
Hans Schaffer was a Dutchman,
In Jersey born and bred;
Where peaches are so plenty,
And all the mud is red.

His father was a Dutchman,
Likewise his mother too;
And his uncles, aunts, and cousins—
Faith, they were not a few!

Hans wore the real Dutch breeches,
Dutch was his coat and hat;
So was his umb-er-ella—
But I won't speak of that.

His shoes and his knee-buckles,
His collar and his vest,
And his linsey-woolsey stockings,
Were Dutch, like all the rest.

Hans Schaffer he got married,
Having nothing else to do;
His wife—may Heaven bless her!—
She was a Dutchman too.

But, ah! poor mortal creature,
It happened that she died,
About a week or two before
The nuptial knot was tied.

And all the people mourned her—
'Twas very right they should;
Yea, all Hans's wife's relations
Of tears shed quite a flood.

"Well, what of Hans?" you query;
What's that to you or me?
He's living still in Jersey,
And there we'll let him be.

A **Quid Pro Quo**.—Masson, Regent of Trinity College, had asked one of his friends to lend him a book, which he wished to consult, and received for answer, "that he never allowed his books to go out of his room, but that if he chose to come there, he was welcome to read as long as he pleased." Some days afterwards this pedant applied to Masson for the loan of his bellows, who replied, "that he never allowed his bellows to go out of his room, but that if he chose to come there he was welcome to blow as long as he pleased."

SNATCHING A KISS.—A negro in Baltimore lately undertook to kiss a snapping-turtle for a five-cent piece, when the owner slipping the noose from the head of the monster it caught the poor fellow's upper lip, and it was impossible to deliver him until its jaws were forced open. He said "he wouldn't buss another for a dollar: tank his stars for de 'scape dis time."

Why is a certain shrub called dog-wood? Because it is known by its bark.

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"Matton,"	6d	Ham and Eggs,	12d
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